Name &	Idea for increasing clean renewable in this sector	W/ho to do
Affiliation	(Electricity) Create economies of scale: Try to band together a large body of municipalities/ businesses to create higher demand.	Who to do
John Gilbert- GeoInsight, Inc.	Differentiate between demand in peak vs. non-peak hours (meters).	
Cleeve Kapala- TransCanada	Accelerate review process for energy facilities that are going to be based on renewables.	
Mark Dell'Orfano- Xgenesys	Constraint: transmissiongetting energy from where its produced to where it needs to go. Who pays for it?	State
Craig Williams- Canney Brook Engineering & Consulting	Develop/establish uniform policies.  Tax incentives need to be considered against property taxrenewables are not taxable on town propertiesgive tax breaks toward those renewables. Green pricing programs.	Communities
Mark Weissflog KW Management	Look at taxing of new facilities that would rely on renewables.	
Gordon Grimes- Bernstein Shur	Get rid of the demand ratchet/transmission/distribution charge. Look at pricing structure that would make it more attractive for someone to rely on renewables.	
	Look at new technologies, (i.e. tidal resources). State should get behind whoever is going to develop these resources.	State

Gil Gelineau- PSNH	Incentive based on actual results. Photovoltaicspay for performance and metering what comes out of the unit. Evaluate residential demand side pricing to ensure that equipment is running at its peak efficiency. Note: may have to pay more than market price.	
Tony Giunta- ENTRIX	Property tax incentives for installing equipment that would use alternative energy feedstock (7212A).	
Tom Palma-NH Elec. Coop	Start an alternative energy trust. Surcharge on bill that creates a fund used for incentives/rebates.	
Shelagh Connelly-	Tap into alternative compliance fund.	
Resource Mgmt		
Bob Ricketts- Brookfield Power	Look at from consumption basis (where is the consumption is taking place). If we are going to invest in NH we want to know we can sell it here.	State
		State
Jim Hadley	Sitting Wind: Look at where transmission lines are and where best resources for winds are. Investigate onshore first and allow developers such as Florida Power to come in and set up.	
	Take proactive role in purchase of renewable energy.	
Frank Gossman- Technology	Incentives to towns to do their part of 25x25. Bottom-up organizations.	
Alex Lee	Invite other organizations to come into cities/communities to help.	
	Put more money into issue.	
Mark Dell'Orfano- Xgenesys	Leadership issuestate needs to take a leadership role to ensure towns have a common framework.	State

Jim Cunningham- NHPUC	Set targets for each component of renewables in order to manage achievement of goals more closely. (RPS does have those classifications) per Mark.	
Mark Weissflog KW Management	Allow allocation of town to get the benefit of the (wind) energy (not just tax revenue).	
Chuck Willing- Rath, Young & Pignatelli	Don't micro-manage b/c it may turn out that in order to meet the goal you'll need to go a different route than originally planned for.	
Dalton Catchpaugh- Demand Side	People have to be convinced of the long term gains that they can accumulate to accelerate the development of renewables.	
Shelagh Connelly- Resource Mgmt	Look at the other benefits to NH from renewables.	Legislature
Mark Dell'Orfano- Xgenesys Development	Create green utilities that are exempt from renewable portfolio standards b/c everything they do is renewable. Then the regulated utilities would have an incentive to purchase from those green utilities.	
Ron Fournier- BAE Systems	Give people who generate green power tax incentives so that they can compete in market.	

	Ideas for increasing energy efficiency and/or conservation in this sector (Electricity)	
Shelagh Connelly- Resource Mgmt Inc	Consumer awareness for putting brackets on carbon footprintsput # on products.	
Chris MacMillan- MacMillan & Donnelly	Technology that doesn't rely on human intervention that can work for us to achieve reduction in consumption (i.e. motion sensor lights).  3% difference in our own behavior.	
Jeff Taylor- Jeffrey Taylor & Associates	Make it easier to recycle efficient light bulbs. Ensure that we don't create a problem while trying to solve another.	
Amy Ignatius- OEP	Education in the schools on energy issues (curriculum design).	
O	Leverage building trades people as frontline sales people.  Trades apprenticeship programs focused on energy conservation and renewables.	
(missed name)	Assess the 3 biggest barriers for infrastructure and supply and come up with state roles to encourage solutions.	
(missed name)	Require efficiency standards for state buildings.	
(missed name)	Mandate installation of smart electrical meters (get people to change their habits with price signals.)	

Alex Lee	Smart appliances that communicate with the meter so they know when to cycle down.  Companies should look at building equipment that turns off automatically. Governor and other in-government positions should set example for citizens in regard to energy conservation.	
Bill Decio-NH Electric Coop	Unplug and turn off when not in use	
Shelagh Connelly- Resource Mgmt Inc	Need to figure out a way to get people away from using incandescent lights.  Code enforcement needs to be addressed.	
Whole room discussion	Ongoing public education campaign to help change behavior.	
Dalton Catchpaugh- Demand Side Technologies	Priority power distribution system that communicates with a smart meter to identify where the energy leaks are in a building.  Carbon economythe less energy you consume the more carbon credits you can earn.	
Richard Ball - Cirtronics Corporation	Build storage facilities for electricity regionally/locally that can be triggered to feed back some of its power during peak demands so that would not have to build additional generation (batteries).	

Name & Affiliation	Idea for increasing clean renewable in this sector (Thermal)	Who to do
Senator Martha Fuller-Clark	Develop separate RPS for thermal by next year and look for other models.	General Court
Clifton Below NH PUC	New construction should be at least 25 % energy efficient to qualify for a green mortgage. Incorporating passive solar/bio energy systems would be the basis for green mortgage.	State wide working group. Public/Private.
	Grant a statewide property tax exemption for the value of renewable energy systems installed in (those in additional to conventional systems).	
Charles Niebling- New England Wood Pellet	Publicly finance one time incentive grants towards the installed costs of renewable energy systems (i.e. solar hot water & heating systems that use Biodiesel or any thermal renewable system). This should be upfront to provide a catalyst for renewable energy installation/technology industry development. Grants should tail off after a while and end once they have served their purpose.	Public finance through the legislature with private sector involvement too.
	The financing for the above idea could come from various existing revenue streams under systems benefits charge, fund from RPS & revenues from the sales of auction allowance under RGGI.	
Eric Steltzer. RPC	Under the RPS, make it clear how and who can access funds under fund created from compliance payments and make sure it is available to municipalities. This would be similar to the renewable energy trust in MA.	PUC rulemaking

Representative Susan Harvey	Under RPS rulemaking, prioritize who has access to funds.	PUC rulemaking
Dick Henry- Jordan Institute	Provide for a revolving loan fund to help repay from the savings of installing a commercial/industrial size wood burner or retrofitting a 200 unit affordable housing unit to one. The challenge is to aggregate the projects to make them attractive to potential funding sources and be able to demonstrate the financial benefits of these programs. The loans can be paid back (in part) by the savings that accrue to the community or entity instead of or as part of the payback schedule.	Municipal school districts & private \$\$\$ sources. The Jordan Institute
	Institute a systems benefit charge kind of fee for petroleum based heating sources. Money in the fund can be used to retrofit from fossil fuels to renewables in home and business heating.	Could be self inflicted by marketing-Private sector
Lisa Drake- Stoneyfield Farm	Consumers and businesses need technical knowledge to design and install at a commercial/industrial scale renewable energy alternatives to thermal applications. Right now it is not easy to access this technical knowledge.	Private sectore.g NE Wood Pellet kind of companies and the State could help to develop this industry.
	Permitting for commercial/industrial projects needs to be speeded up.	State Agencies
Amy Ignatious, Office of Energy and Planning	In response to the need for technical assistance for installations - NH Tech. Institute is starting a degree program to bring knowledge level of how to install energy efficient technologies. Need to coordinate this program with on the ground needs.	

_	International building code is not enough. Need to adopt stricter building code in NH. California has a stricter building code than the International Standard.	Legislative
Steve Walker- New England Wood Pellet	You can Measure heat by watts. It would be good to measure this in the same way to standardize.  ASME-National Program that states have adopted for certified boilers. Allow ASME and/or the EU standard for certification of Boilers. Right now we can't bring international equipment over. NH could be the first in the nation. People are spending a lot of money right now to get around the current system.	Legislative
Steve Walker- New England Wood Pel.	We need educationthe most interesting technologies around renewables is coming from Europe. It would be great to get UNH to have some similar departments/degrees. This field will need a lot of well trained customers (students). Students will go into this field if it is offered.	Institutions of higher learning.
Joe Broyles OEP	Establishing an in-state biodiesel production facility.	Public/Private/ Legislative
	RPS standard for thermal may be harder than for electricity. Keep it as simple as possible so that it is not a burden on state government or the private sector.	Public/Private/ Legislative

_	A person/entity needs to make all the information needed for people to reduce their energy footprint. Available information should be through a website too.	OEP-Government Function
Julia Dundorf- NH Carbon Challenge	NH Sustainable Energy Assoc as a link for action item above.	
Beth Greenblatt - Beacon Integrated Solutions	There needs to be a new type of investment in infrastructure to allow for more renewable energy to be produced and used. Look at financing and private equity firms. The private investments firms are looking to make investments in renewable energy and we need to build the market to attract the firms that are doing this type of investment - bring buyers and sellers together.	BIA
Tom Werst - no affiliation	Building Codes- Need to be more careful in new construction today to allow for more conduits/access through walls to get future energy infrastructure to allow this to happen at reduced cost. Trying to retrofit old buildings is difficult because this conduit access from basement to attic is not available.  Educationprovide opportunities (e.g. challenges or other public education) for renewable energy to enter the public education.	Legislative-Building code.
Jason Stock- NH Timberland Owners Assoc.	Some of the air permits and other permitting issues have become a barrier. Find a way to establish threshold when establishing different kind of permitting process when you are doing co-location or retro-fitting so an existing air permit doesn't have to be opened up and put at risk.	State/fed/legislative- regulatory - OEP and DES

Don LaTourette- Building Energy Technicians	Building Code/building inspectors - Need to bring local building inspectors up to speed on the need for energy efficient program and techniques involved. Also improve compliance with existing building codes.	PSNH possibly. PUC administers the code & legislative component. Municipal Association
Joe Broyles	Building on the idea above - there are not enough code officials. Many are overworked. Energy code enforcement is not a priority. Many are not properly trained. Need to find the funding to train.  Ideas for energy efficiency in this sector (Thermal)	OEP may be able to do this.
Rep. Dick Barry	Ideas for energy efficiency in this sector (Thermal)  Education and research - should take the audits of existing structures for energy efficiency and focus them on higher return investment items. We should publish results so people can understand that there is a high return on certain of these approaches of renewable retrofits.	BIA-OEP-Funding sourcesbanks, private equity funds.
Nancy Nichols Town of Goffstown Energy	Need education and more small grants to get old house retrofits. Should educate parents and students about how to be more energy efficient.	Local Energy Companies & PUC.
Dick Henry Jordan Institute	Building CodeRequire building performance measurements at the time a building changes hands. England just started doing this. With this information and education, we can show people that energy efficient homes are more cost effective - likely resulting in actions to improve energy efficiency.	Legislative

	Laconia Community Technical Institute has a proposal in to be the portal of information player. See above item.	
Gary O'Connell- State Energy Manager	Need to require certain efficiency standards for the buildings that the state leases from the private sector.	Legislative
Rep. Susan Harvey	Might use Nashua's Green Team as a model for other communities. This committee provides an opportunity for idea sharing and success stories. It also makes sure that claims about renewable energy are accurate.	
Dick Henry Jordan Institute	Certification Standards for energy efficiency are important.	EPA might be able to provide the tools/Legislative
Charlie Niebling	Role of State government in this is to be a leader with its action. An example would be to think more aggressively about requiring tough energy standards to all projects that are funded through the state's capital budget. Anything that uses tax dollars must meet very strong standards.	Legislative and Executive Branch
Beth Greenblatt - Beacon Integrated	Need a tax incentive or some other incentive to bring more suppliers of energy technology to NH.	Legislative and Executive Branch

Tom Werst	Residential Energy EducationDevelop seminars on the road and on the web (or instead of). Video tape segments and put them on the web so that a broader audience can be reached.	Same people that are doing the other presentations (OEP, UNH Extension)
Rep. Barry	Local TV channels could help to make these energy efficiency programs (above) available via TV.	
Gary O'Connell, State Energy Manager	Efficiently designing new state buildings. Need to get a third party commissioning agent to make sure it is being done correctly. Not just the same organization that is doing the project.	Private industry. Engineers
	State BuildingsFunding is always and issue. Require state buildings to be LEED certified.	Legislature
Steve Walker, NE Wood Pellet	Assure that incentives are available since you get double duty from renewable generation if co-gen is involved. Assure that barriers are removed to co-gen.	Private sector
	Change the way you are charged to transmit electrons across the grid.	Legislature: State & Federal
Bob Morrison, Honeywell	State Buildings- Establish a baseline energy efficiency requirements for all new construction of state buildings (and maybe for retrofits too).	Government
	Incentives for local government to do the same as above for local government buildings.	Government
Tom Werst	Educate the appraisal and lending communities so that the energy efficient home is valued more than one that isn't since it is cheaper to operate and has a reduced carbon footprint.	Appraisal community and Fannie May and Freddy Mac et al

Cary Rosenberg- Watts- Franklin NH	Need incentives for industry to re-use processed water to save energy	Legislature/ Regulatory-need to work together.
Don Lattorette	Home envelope efficiency is very important. Provide energy credits or incentives for envelope efficiency to be improved.	Legislative
_	Fuel providers and boiler providers need to be tied into the envelope energy efficient issue. When you are changing the heating and cooling system you can look at these things.	
Beth Greenblatt - Beacon Integrated Solutions	Change how the system benefits charge funding is distributed. Take away from the utilities and have state do it and/or have state put this out to bid to get the best value.	Legislative
Charlie Niebling	Need incentives, regulatory action, education to reduce thermal energy consumption by keeping it from escaping. Building envelope efficiency is very important.	Legislative/private sector.
Cliff Below, PUC	For all state computer system install active management software to turn off system that are not being used.	Executive order.
Bret Sinclair- Louis Karno & Co.	Take some of systems benefit charge to inform home owners and others on how to and benefits of energy efficiency installations and retrofits	Legislative

Greg Werner	Apply international building code to existing structures when they are undergoing renovations. State buildings a place to start but should think about this for all buildings.	Legislative
Dick Henry, Jordan Institute	Institute appliance standards.	
Beth Greenblatt - Beacon Integrated Solutions	Structure the use of the SBC money so that it provides the biggest gains for the expenditures. Commercial/Industrial applications may get you more benefit for the dollar rather than residential work, for instance.	Legislative

Name & Affiliation	Idea for increasing clean renewable in this sector (Transportation)	Who to do
Richard Ball (self)	Electric transportation (cars, boats, etc.) can be utilized more simply regulatory (feds?) and local government >> limited to 25 MPH >> if upped to ~35 MPH would work for urban use. Towns could do free / reduced / easy parking for electric vehicles	Feds
Christa Koehler - CACP	More state subsidies for hybrids (e.g., Maine offers discount on vehicle registration), anything along those lines. NH offers nothing	State of NH
Roger Stevenson - CACP	Extend exemption that towns can give to renewables (wind, solar, etc.) to apply to privately owned alternative transportation	Legislature
Laura Scott - Rockingham Econ	Making biodiesel readily available at the pump, make people aware of where to get it  Why are there not more in the state?	NGO / private sector
Mike Fitzgerald - DES	We need to target subsidies/tax breaks to help products establish market.	State of NH
Becky Ohler - DES	Government should not be picking the winners. We need to develop support mechanisms that are broad enough to support emerging technologies	

We need to think about how we define renewable e.g., ethanol from corn vs. cellulosic ethanol. "Renewable" should be synonymous with "environmentally sustainable" >> pollutants, waste, climate, etc. Need a life cycle look at fuels	State of NH
1	
Partnership between auto industry, need to find something that appeals to market. How about disincentives? Some kind of fee based on mileage. Industry driven partnership	Auto manufacturers
How do we even get started? What are the ABCs of ethanol and biodiesel? What are the first steps to demystifying this?	Private and private sector collaboration
Why isn't biodiesel available at a service station near you? Building storage and blending infrastructure is an issue. State of NY Pataki executive order 142 called for government vehicles and buildings to use biodiesel / biofuel. Provided market for Sprague to build infrastructure, which now serves a larger market. Similar \$0.09 tax credit in Maine provided similar incentive. Fuels are now reaching North Country. In NY, NYSERDA provided funding for state infrastructure. Let's learn from our neighbors .	State of NH
	cellulosic ethanol. "Renewable" should be synonymous with "environmentally sustainable" >> pollutants, waste, climate, etc. Need a life cycle look at fuels  Can NH look at other states efforts >> adopt PAVLI regulation that came out of California. Not just about swapping out fuel, but also about efficiency. NH should be a leader in this effort.  Partnership between auto industry, need to find something that appeals to market. How about disincentives? Some kind of fee based on mileage. Industry driven partnership  How do we even get started? What are the ABCs of ethanol and biodiesel? What are the first steps to demystifying this?  Why isn't biodiesel available at a service station near you? Building storage and blending infrastructure is an issue. State of NY Pataki executive order 142 called for government vehicles and buildings to use biodiesel / biofuel. Provided market for Sprague to build infrastructure, which now serves a larger market. Similar \$0.09 tax credit in Maine provided similar incentive. Fuels are now reaching North Country. In NY, NYSERDA provided funding for state

Mel Liston - Clean Power Development	Off road users (loggers) express concerns regarding use of bio-diesel (loss of power, plugging of filters). Timothy (Sprague) response not all bio-diesel is the same. New mechanism BQ2000 (by ASTM), designates quality by producer / distributor.	
Becky Ohler - DES	A need to educate potential users when you run an older diesel vehicle, you will clean it out and send carbon to the filter. We need to see ONLY ASTM fuel sold in this state.	Legislature
Richard Ball (self)	Bio-diesel has issues with rubber fittings and seals (older vehicles, particularly with B100). Growth of bacteria in summer months. Flow issues in cold of winter. Issues greatest with B100.	
Roger Stevenson - CACP	Legislature passed R&D tax credit last session. What is the role of marketing that to attract companies to NH?	
Laura Scott - Rockingham Econ Development	The "green stuff" is new to the business community. Takes a lot of work to get money from funders, federal economic development, etc.	
Stacy - Mt. Washington Resort	Need a collaborative approach: peer to peer learning important, knowing what to expect, etc.	Private and private sector collaboration
Roger Stevenson - CACP	Finding high profile users (on the ground users) important.	

Richard Ball (self)	For recreational users, use 100% biodiesel as the base fuel, to charge electric batteries when a grid interconnection is not available.	Private sector
Chris Skogland - NH DES	Is there a role for incentives for growing feedstocks for renewable fuels? Take R&D work at UNH and move it to the implementation level	Feds (farm bill)
	Ideas for increasing energy efficiency and/or conservation in this sector (Transportation)	
Mel Liston - Clean Power Development	Power plants going next to WWTF. Raising algae is using waste heat may be a synergy, and some algae is 60% oil. Algae absorbs CO2 very well. I want to raise algae BIG TIME. How do we raise more with less space? Can you "stack" growth? (I had Farig doing research at UNH)	Private sector, with government. support
Christa Koehler- CACP	Clean Cities does a great job of coordinating efforts in this space and needs more funding.	State of NH
	Mandate that all service stations phase in use of B5.	Legislation
Mike Fitzgerald - DES	NH is different than other states legislature need to take leadership role.  Agencies have limited flexibility	
	Increased funding for mass transit. Rail, bus, other commuter options.	

Mike Fitzgerald - DES	Differential pricing / congestion pricing may serve a role in this area. How will we handle increase in flights, road miles, etc. Need to consider fee for "mobile sources". How this would work is modeled after oil demand fund. Similar consent for air pollution should be considered.	
	We subsidize single occupancy vehicles by subsiding parking.	
John Hagopian - Manchester / Boston Airport	Why do we require ethanol blend fuels in 4 counties? Ethanol requirement is not a renewable requirement, but part of the RFG for air standards. (ethanol as oxygenate in place of MTBE)	
Mike Fitzgerald - DES	Constraint on mobile source fee we have 70 people, 1.5 people can work on this. Our funding is from stationary source fees. Fees from stationary source declining. Funding imbalance.	
Roger Stevenson - CACP	It was easy to institute anti-idling behavior. Advertising bio-diesel on busses could promote use. (ex: Oakhurst Dairy was flooded with applause for advertising biodiesel use)	
Andrea O'Brien - NH SBDC	Walmart is trying to become "sustainable". What are the ways we can deal with fleets?	

Melissa Hoffer -	Need to transition away from highway investment and increase mass transit	Need a new entity
CLF	investment.	- not DOT - too
		look at these
		issues with fresh
		eyes
	The amount of vehicle miles travelled is the issue. How do we reduce this?	Need a new entity
	How do we work with other New England state?	- not DOT - too
		look at these
		issues with fresh
		eyes

Melissa Hoffer - CLF	Pay-as-you-drive insurance >> encourages fewer miles travelled  Connect land use and transportation decision-making.	Need a new entity - not DOT - too look at these issues with fresh eyes  Need a new entity
		- not DOT - too look at these issues with fresh eyes
Chris Skogland - NH DES	Evaluate leverage points e.g. zoning	OEP
Becky Ohler - DES	Most people don't see natural gas a renewable. Technology exists to use for fueling, operate trash trucks.  We have huge potential for cellulosic ethanol. Lee Lynd is the nation's leading researcher. We need to bring that technology home. NY lured Mascoma with \$\$\$private sector	Clean cities network

Richard Ball (self)	We need brackets around our driving habits. Example >> toll booths that allow high-speed passage	Highway
	Modern automatic transmissions have a torque converter that kicks in around 40 to 45 MPH. Should set speed limits accordingly	Towns
Timothy Keaveny- Sprague	Encourage E85 flex vehicles. Need to encourage adoption of these vehicles, and same time roll-out of supply chain, distributors, service station, etc.	Private sector
Becky Ohler - DES	Growth in flex fuel causing increase in fuel prices. Government has over-incented development of this technology, perhaps too much. Incentives should not pick the winner.	state of NH
	Plug-in hybrids >> maybe NH government takes the lead when commercially available.	State of NH
Amy Ignatius	Does NH give \$\$ to support school busses? (Answer - NO). May be a way to encourage school districts to purchase renewable fuels, hybrid busses, etc.	State of NH?
Christa Koehler - CACP	Change the constitution to allow gas tax to go toward renewable fuels, and we should increase the gas tax.	State of NH
Laura Scott - Rockingham Econ	Think about biodiesel as a public health issue >> may be a better way to sell use of biodiesel	

Chris Skogland - NH DES	Promote telecommuting and flexible schedules	State of NH
Richard Ball (self)	Hydrogen >> develop hydrogen reactors, along St Lawrence seaway and use scrap aluminum and use that as a feedstock.	Who?
Roger Stevenson - CACP	Public policy caused fuel cells manufacturing to locate in CT how do we replicate for NH? R&D tax credit.	BIA / state
Jack Ruderman	Increase CAFÉ standards. Are there ways that states can lead on this? (NH is no, but can adopt a standard identical to CA).	State / Feds
Chris Skogland - NH DES	If change occurs in CAFÉ standards, couple this with education around behavior.	State of NH
Becky Ohler- DES	Behavior is key to success in all of these areas. Must be an ongoing effort, how and where do we find the funding to support the programs we know we need?	
Chris Lampron - Cirtonics	Price of gas beginning to impact consumer behavior.	